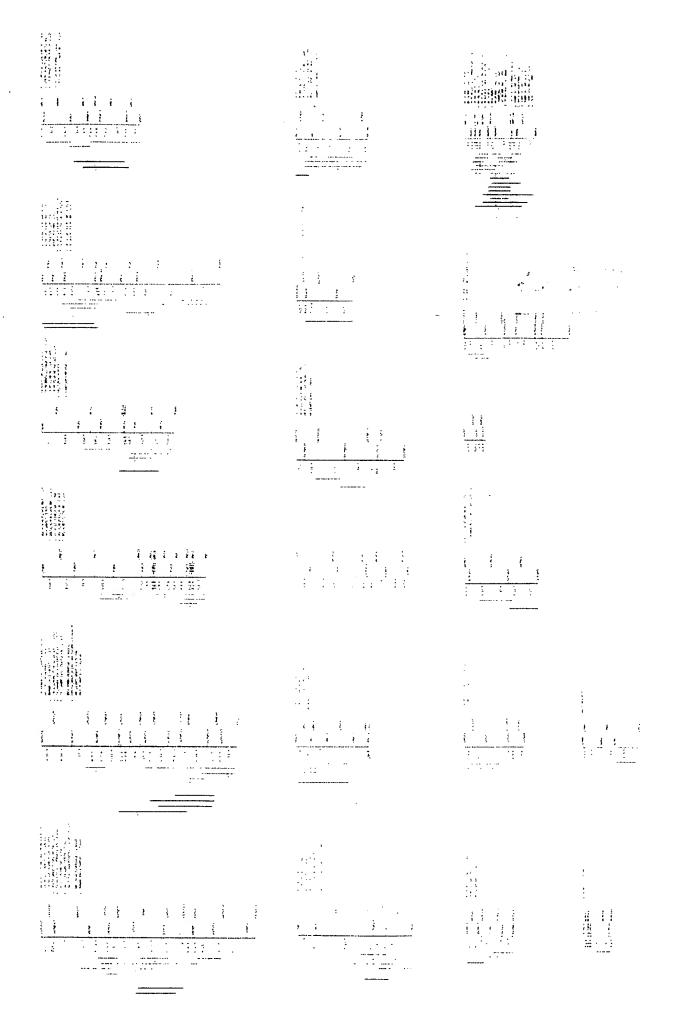
0. RAWBP_DAY1 HRIRT 3 16 -DIOMONIT 2 ARVA_LS_ACH D2_MAP MEAN 279 -D15Mgh8 -D15Mgh9 D5Rat178 Chr.15 9 ∓Diswitz L015Mgh5 D5Rat50 D15Mgh1 Chr.5 0.DELTA WAKE W DAYZAM SYSBP 354 4 BW_TOTAL_CHOLESTEROL_VALUE 3 07 5 TR_D_ANG3_M_CTRL_RVR_LN 2 8 O. ARVA_LS_PRE_NE_RBF_MEAN 3 07 DELTA ACHI M CTRL RBF 4 16 DELTA ACHI M CTRL RBFK 4 3/ 0. TR_AP_LFT_VENTRICLE_WGHT_LN 2 97 **■** D20Uw1 DELTA_ACH2_M_CTRL_RBF DELTA_HS_M_LS_HR_300 BPTSM_TPM_ALPHA2_341 0 TR_BPTSM_TAM_SD_LN 2 99
11 TR_BW_RENIN_LS_MINUS_HS_SGRT 3.05
2 TR_E_S_CURINE_K_LN 2 99
3 TR_RE_HS_URINE_VOL. SORT 2 83
4 BW_LS_PLASMA_RENIN_2.82 # D10Mil6 D10Mgh14 D10Mgh1 0. DELTA_ANG3_M_CTRL_RBFK 2.82 Chr. 10 0 RAWBP DAY3 HRIRTSD 355 Chr. 14 T D14Rat1 T D14Mit5 + D9Rat108 - D14Mit7 - D9Rat113 - D9Mit7 T D9Rat44 D9Mire Chr.9 D19Mit2= B19Mgh4 0 19Mit4 1 19Mit6 1 19Mit6 1 19Mit6 D4Mgh2 D4Mgh24 D4Mit1 D4Mit2 Chr. 19 0 TR_RF_HS_VRINE_VOL_SORT 387 1 TR_RF_HS_24HR_URINE_PROTEIN_LN 292 2 DELTA_HS_M_LS_SYSBP 34 ٥. 0 BPTSM, TPM_ALPHAZ 3.81
1 BPTSM, TPM_ALPHAZ 3.20
2 IF RF HS_ZAHR_EXCR_PROTEIN_LN 2.98
3 BW, HOL, VALUE 3.83
4 BW, HOL, VALUE 3.89
5 IF RF HS_EXCR_PROT_MGGAHR_LN 2.93
6 IF RF HS_EXCR_PROT_MGGAHR_LN 2.93
6 IF RF HS_EXCR_PROT_MGGAHR_LN 2.93
7 DELLA HS_MLS_SYSBP 3.64
8 RANA_WGHTGS_Z_96
9 BPTSM_WAM_ARPHAZ_3.02
1 10 RAWB_DAYZ_0AP 2.83
1 10 RAWB_DAYZ_0AP 2.83
1 11 BPTWM_WAM_XBAR_3.05
12.17R_BPT_MR_XBAR_3.05
12.17R_BPT_MR_XBAR_3.05
12.17R_BPT_MR_XBAR_3.05 0 DELTA_ANG3 M_CTRL_BP_2 94
1 TR_BPX_LSBASALDIASD_SQRT_2 98 U BPTSM TAM ADA 3 73 0 BPX_HSACTIVEMAPMEAN 4 36 BPX HSBASALMAPMEAN 3 89 RAWBP DAY2 DAPSD 3 59 FIG. 1 COURTESY COPY RAWBP DAY2 MAP 441 D3Mgh3 D3Mgh18 D3Rat16 -D3Mgh19 4.C PH HH -D3Mgh23 -D8Mit16 -D3Mgh7 -D3Mgh6 -D8Mgh4 Chr.3 Chr.8 Chr. 13 Ait 14 D18Mit3 DZMII 0 TR_RAWBP_DAY3_MAPSD_LN 4.38
-DZMIZ9 I BPTSM, TRM_ALPHA1 3.48
2 RAWBP_DAY1_HRTR1 3.17
-DZR87 3 TR_D_LNAME_M_ACLS_BP_LN 3.04
-DZR87 4 TR_RAWBP_DAY1_HRTR1SD_LN 3.37
-DZR873 5 TR_RAWBP_DAY3_DAPSD_LN 3.67 2 DELTA ANGZ M.CTRL RBF 2 99 3 ARVA_[S_ACH_D4_MAP MEAN 3 04 4 ARVA_LS_CTRL_MAP MEAN 2 97 KIDNEY WGHT 3 93 . 3 DELTA ANGT M CTRL BP 2 85 4 BPTSM TAM ALPHAT 4 04 LS MAPSD 283 0 AP_RGHT_KIDNEY_WGHT 357 0 RAWBP_DAY2 HRIRTSD 356 Chr. 18 U AP LFT NONEY WGH! 452 TD7Mgh9 0 AP RGHT -D2Mgh12 D7Mit28 D7Mgh19 ± D12Mgh8 ± D12Mgh9 D12Mgh3 D12Mgh5 D2Mgh15 D2Mgh16 D7Mit10 10 DITMUT 0 TR_D_ACH4_M_LNAME_RVR_LN 288
11 DITMUT 0 TR_D_WAKE_M_DAYZAM_HRSD_LN 4
11 DITMUTES **D12Mit7** D2Mit1 L D7Mit1 Chr.7 Chr. 12 37 1 TR_RF_LS_24RR_EXCR_K_LN 4 66
7 2 TR_RF_LS_GNRINE_K_LN 4 59
7 2 DELTA_WAKE M DAYZAM HR 2.9
4 TR_BPX_HSACTIVEMAPSD_LN 3 84
5 RF_LS_GNRINE_MA 484
6 BW_LS_PLASMA_REININ 4.1
7 BW_TOTAL_CHOIEESTEROL_VALUE 301 0 TR ARVA NE SLOPE RVR LN 2 88 1 DELTA ACHI M CTRL BP 3 29 2 TR D ANG M CTRL RVR LN 3 22 O BPISM TPM ALPHAS 3.65 1 DELTA AGHS M LNAME BP 3.52 0 AP AORTA LESION NUMBER 3 65 U BPA_HSACTIVEDIASD 3.6 1 RAWBP DAY3 SAPSD 3.72 017R#132 017R#16 017M#13 D178#44 D178#46 D178#69 D17Rat51 DIMINIS OF DIMONIS + D1Mgh13 T D16Mit2 ■ D16Mit3 P16Mit1 -D16Mit3 DIMICS DI - D1Mgh3 D1Mit10 D1Mit10 D1Mit30 D1Mgh7 D1Mitt8 0 + D11Mah11 D1Rat8 - D1Mit34 - D11Mgh3 L D11Mgh1 -D11Rat7 Chr.6 Chr.11 Chr.16

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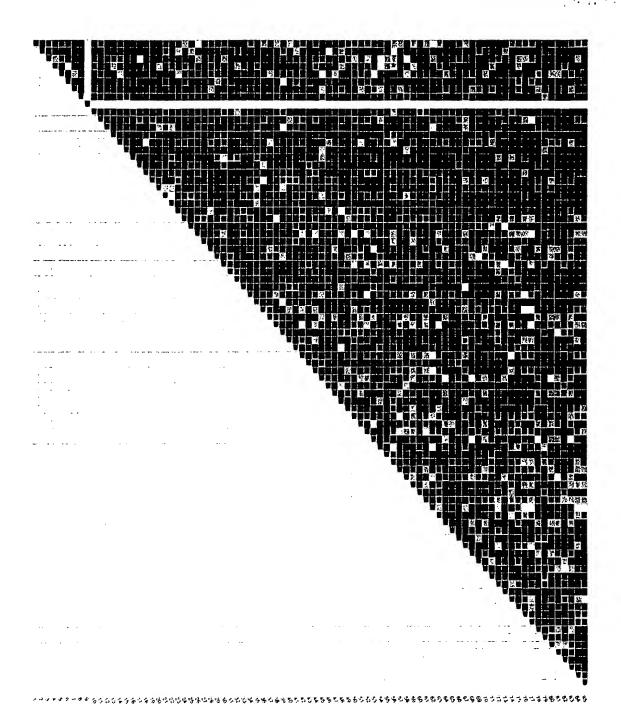


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Figure 2: Colorization of a random correlation matrix for BN





NA

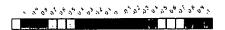
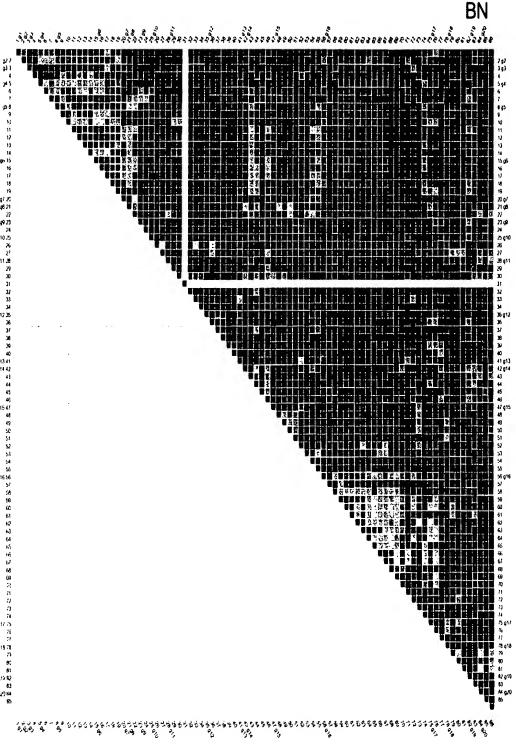
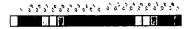


Figure 3: Functionally clustered physiological profile

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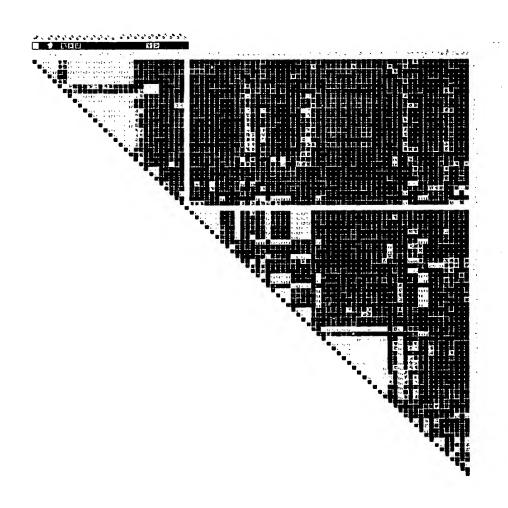


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Figure 4: Composite matrices of two physiological profiles generated by functional clustering and algorithm-based clustering



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Figure 5: Physiological Profiling of autoregulation of blood flow in the SS and BN rat.

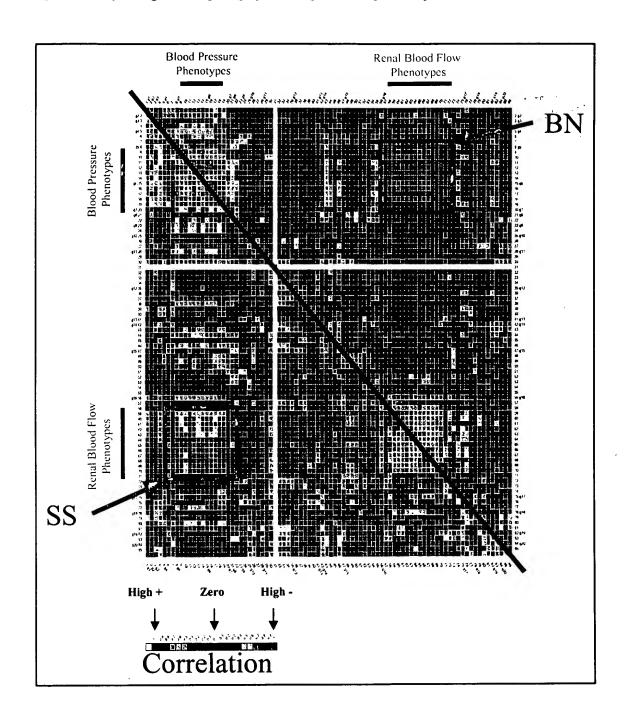
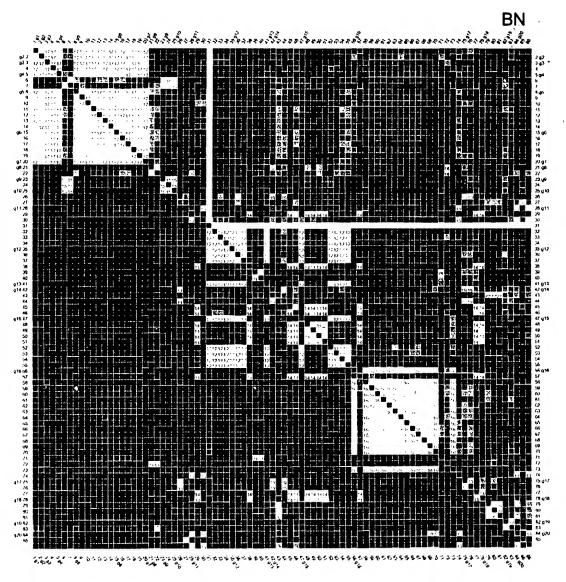




Figure 6: Composite profiles of parental BN and F2 progeny rats generated by overlaying functionally clustered correlation matrices with algorithm clustered correlation matrices

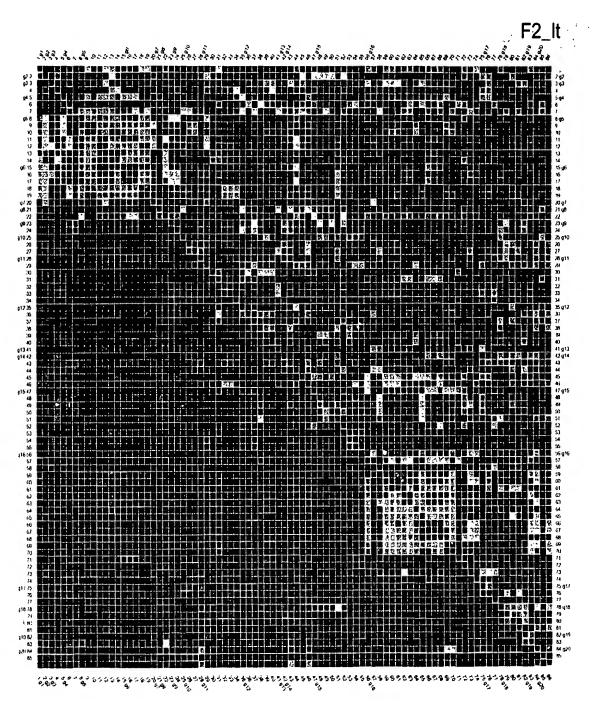


F2_all

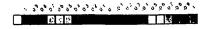


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Figure 7A: Physiological profiles of the entire F2 population and the F2 progeny population that fall in the left 10 % of a distribution after a salt challenge



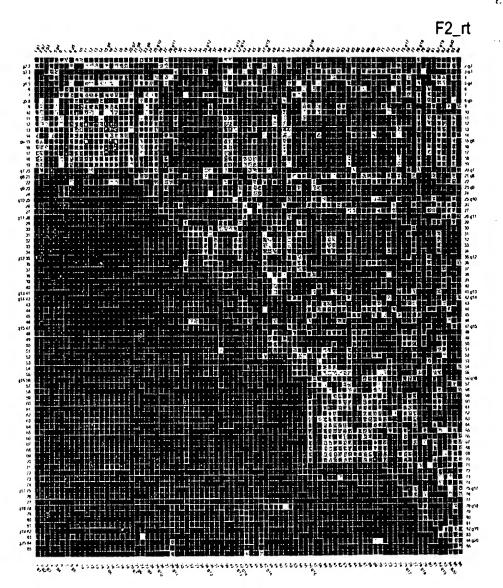
F2_all



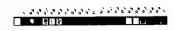
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Figure 7B: Physiological profiles of the entire F2 population and the F2 progeny population that fall in the right 10 % of a distribution after a salt challenge



F2_all







F2 male genotype homozygote SS/SS at D10Mgh14 marker on chr 10

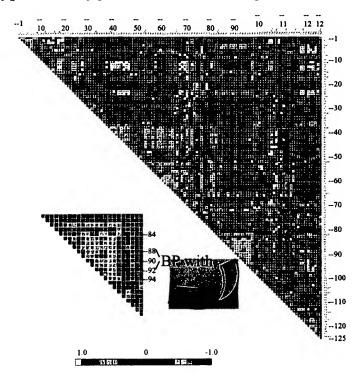


Figure 8B

F2 male genotype homozygote BN/BN at D10Mgh14 marker on chr 10

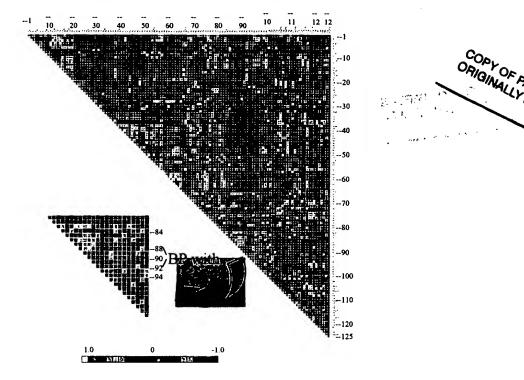
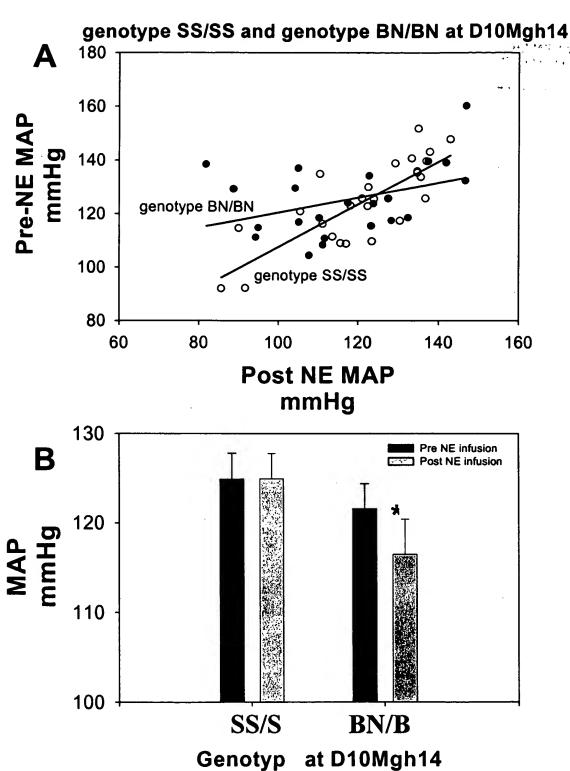


Figure 9





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Figure 10: physiological profiles of French Canadian and African American

hypertensive patients

